# Polaris Sample Paper <br> Jobs-Junction.com 

| Company | $:$ | Polaris |
| :--- | :--- | :--- |
| Date | $\vdots$ |  |
| College | $:$ |  |

1 wt motor is used in ceiling fan \& washing m/cs
2 In electric traction

3 wt is 8255
48085 has ___ address and ___ data lines
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58051 is a $\qquad$ bit microcontroller (ans:8 bit)
6 74LS244 is $\qquad$
7 Bucholz relay is used for $\qquad$ protection (trnsfrmr)
8 Transmission line parameters are called $\qquad$
9 No. of poles and freq given find speed
10 In which motor starting torque can be incr by adding rotor resistance (IM) there were 4 qns frm Power plants
(had to guess in that) 4 qns frm Controls (pretty easy.....like zetaL>1 means
a)underdamped b)undamped c)overdamped
d)critically damped

11 qn abt transistor. .basic workin
12. boolean expn was given for simplification-simple
13. How many flags does 8085 have? (ans-5)
14. which of the following are universal gates? (ans-nand,nor)
15. whts the frequency range of mobile communication?
16. The resolution of picture in tv depends on..
a. no: of lines scanned
b. video detector $\mathrm{o} / \mathrm{p}$ and 2 more
choices were given...
17. Qn on stability of FET
18. Wht is the modulation used to transmit sound in tv signal
a. VSB
b. FM and 2 more choices were there...

19 Wht is double integration of a unit step signal?
a. ramp signal

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b. parabola
20. It mainly covers Operating system..consists of questions in semaphore( 2 questions), job scheduling
algorithms (shortest job),paging (2 or 3 questions),virtual memory,hashing,etc virtual memory is used for. $\qquad$
20. Rdbms covers "Define Query"(simple but 4 options made some complications)
21. Datastructure : order of randomly serached binary tree
22. Electronics based questions which covers microprocessor 80386(not 8085) 2or 3 questions
23. A pulse is passed through a pipe..to detect any damage..this process is called
24. frequency reflectometry
2) Time reflectometry
3) Piggy backing

Aptitude
1 Given a $3 \times 3$ matrix, find the minor of one of the elements
2 find the odd one out of the series 48474440322312
3 A goes to school at 4 kmph and reaches 10 mins b4 schedule and at 3
kmph reaches 10 mins after schdule
find thedist (ans 4 km )
4 Meaning of COY (iritated)
5 Opposite of Grimace
6 Opposite of FLOODED WITH
7 JUMBLED letters find out the word, the word was FATIGUE
8 Simple interest problem
9 Smallest of four given fractions
10. A guy walks @ 4kmph from a point..After 4hrs a cyclist starts from the same point @

10kmph....At wht distance will they meet from the starting point? the qn was almost like this.
11. $x \%$ of people have tea, $y \%$ have coffee, $z$ no: of people have both...find the total no: of people...
soln: easy...have to use $n(A U B)=n(A)+n(B)-n(A$ intersctn $B)$..
12. Complete the series....

1,4,9,25,... (choices- 47,49,64,none)
13. Analytical qn
"failures are stepping stones to success" this means...
a. all success are preceded by failures
b. success consists of failures
c. failures can lead to success

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d. none..
14. abt matrices.. which of the following don't have inverse? $u$ have to find for which matrix $|A|=0$...time consuming...
15. There was 1 big sqr which had 16 sqrs in it.. 4 in a row \& column.. each sqr had a no: in it.. except one sqr..
. had 2 find the missing no:...i dont remember the nos...
16. 4 sentences given..\& 4 choices of word given...have to choose 1 word that suits all the 4 sentences... *the police
are ___ about the miising boy in the forest. * the detective was $\qquad$ her face for marks. and 2 more sentences
were there... choices(investigating,
searching....).ans:investigating.
17. Hcf of 2 nos... 1024 \& 1214...don remember nos exactly..like in rs aggarwal...
18. out of 500 students, $75 \%$ of boys and $72 \%$ of girls passed. Total pass percentage is $77 \%$. How much girls ...?
19. how many prime numbers are between 1 to 100 ?
20. $A$ greater than $B$ and $B$ less than $C$. what is the relation between $A$ and C ?
21.given a set of different sentences ...we have to choose an appropriate word which should be matching with all
sentences eg: A person --------------the child
The government--------------the people
options may be 1)saved 2)preserve (this is not
the exact question)

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section A -35 questions (arthimatic)
section B - }7\mathrm{ questions(analytical)
section C -10 questions( VERBAL ANALAGIES).
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## Section-A

These are the questions from r.s.. aggarwal arthimatic.(1 to 5).

1. page no: 27 , ex:-15

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2. page no:-63, $\mathrm{q}: 76$.
3. page 177 , ex:- 18.
4. page 257, ex :-3 (this model -there is some change in this question., the question is: who will do the work in least time among a, b, c?)
5. page $327, \mathrm{q}:-9$.
6. If $s=a / b+c / d+1 / e$. and $0<a<b<c<d<e$ to get the maximum value of $s$,to which variable 1 is to be added?
7. which is the prime number? a. 119 b. 115 c. 127 d. none. (ans for this question is :c)
8. If x is an odd integer, which of the following is even: ( answer for this question is $2(n+1)$. )
9. There are 30 balls, out of which $60 \%$ are green balls and the rest are blue balls. how many ways that
we can pick the pair of blue balls?
a 21 b. 2 c. 12 .d none( answer for this is:2
--plzz check it)
10. An officer is getting the salary of $S$ rupees for H days of work, he has taken $x$ days of medical leave, then what is his average salary per day?
11. How many 2 digit numbers, which is a square , with last digit as 8? ( answer for this is: 0 )
12. One tank will fill in 6 min ar the rate of $3 \mathrm{cu} \mathrm{ft} / \mathrm{min}$, length of tank is 4 ft and the width is $1 / 2$ of length, what is the depth of the tank? (answer for this is: 3 ft 7.5 inches)

13 Find the next number in the series $3,4,6,9,13, ?($ ans: 18 )
14.which one is the least likely of the other? a. triangle b. sphere c. pyramid d. circle.
15. The straight distance between A and C IS 60 miles, the straight distance between $A$ and $B$ is 50 miles.
the straight distance between B and C is 50 miles then what is the distance from $B$ to the straight line of $A$ AND C? ( answer is: 40 miles)
16.\& 17. If $A, B, C$ are having $x, y, z$ marbles initially, $A$ has given the same number of marbles to both $B \& C$,as
they have. next $B$ has given the same number of marbles to both $A$ and $c$ as much they already have, Similarly
$C$ also given to $A \& B$. then
16. How many marbles that $B$ has finally? ( ans: $2(3 y-x-z)$ )
17. if the total number of marbles are 72 , then how many marbles $A$ had initially?
a. 22 b. 20 c. 36 d. 39 (ans for this is : 39 , plzz
check this)
18. $A$ is 8 km east of $B$
$B$ is 10 km north of $C$
C s 13 km east of $D$
$E$ is 2 km north of $D$.
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then what is the shortest distance beteen $A$ and $\mathrm{E} . ? \mathrm{a} .5 \mathrm{~km}$ b.
6 km .c. 13 km d. 18 km
19. If the cost price of an item is $x$ rupess, it was sold out after the successive discounts of $\mathrm{y} \%$ and $\mathrm{z} \%$. then what is the selling price of the item?
20.Cost price of an item is $\$ 50$,the price has been increased to $108 \%$ ,and after some days it was sold out with the discount of $10 \%$, then what is the sold price of the item?( ANS: \$ 48.60 )
21.How many 3 digit numbers are there in between 100 and 300 , having 1st and the last digit as 2.
a. 9 b. 10
c. 11
d. 12 ( answer for this is: 10)
22. If $a=26, b=25, c=23$ $\qquad$ $. z=1$.then what is the value of z+y+x+. $\qquad$ $+a=$ ?
a. 351 b. 531 c. 335 d. 235 (answer for this : 351)
23. Pipe $A$ will fill the tank in 6 hr and $B$ in 4 hr , if the pipes are opened alternatively, in which A is opened first, then how many hours it will take to fill the tank?( answer is : 5hr.)
24. $A, B$, and $C$, went to do mean in a hotel, $A$ has apid $50 \%$ more than the amount that $B$ has paid. and $c$ has
paid $5 / 6$ of that opf $A$ has paid. also $B$ has paid $\$ 2$ more than that os c has paid. then what is the total amount that all the three paid for their meal? ( ans for this is: $\$ 30$
25.Cost price of the item is $\$ 2500$,in the year end it will be $4 / 5$
,after 3 yrs, what will be the cost?

> section -B

This section contains analytical 2 questions-( there are 2 questons in 1st ans 5 questions in 2nd)
(this also i can't say exactly the quetions..)
1.There are 2 marriage groups red and brown, in which no induviduals from the same group can marry each other,
if a guy marries a gal of any group the guy 's group becomes that of the gal.the children have the same group as
their parents. diversed and widowed guys goto their own birth group. questions are:
A.for girl is in brown group then?
a. Grand father is in red group
b. grand father is in brown group.
c. grand mother is in brown group.
d. grand father in both the groups.
B. If girl is in red group then?

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2. *( plzzz check any book whether these type of question that $u$ will get)

A causes B or C but not both
D occues only if B occurs
G occurs if $E$ or $F$ or both occurs
$\qquad$
LIKE THIS some staements are there and $u$ will be asked 5 questions bel;ow this.

> section -C

Here are 10 questions, all are analagies taken from GRG barrons book( IN GRE BARRONS BOOK 5 sample
TESTS are there in which these analagies are 5th and 6th question of every test)
question
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1\& 2. gre barrons ( new book) page no: $437--5 \& 6$ )
3\& 4 gre barrons ( now book) page no: 457--5 \& 6)
$5 \& 6$ gre barrons ( now book) page no: 479--5 \& 6)

7\& 8 gre barrons ( now book) page no: 499--5 \& 6)
$9 \& 10$ gre barrons ( now book) page no: 519--5 \& 6)
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Hungama..!! ( Aptitude :: Technical )
WIPRO University Questions : Technical Questions

1. Add 79 H and 86 H and tell the contents of flags
2. Scr is used for $\qquad$ ( ac, dc , both )
3. Push pull amplifier is used to remove which harmonics ( even , odd , both )
4. PAM is demodulated using $\qquad$ ( low pass filter , high pass filter )
5. 16k memory is needed. How many chips with 12 address buses and 4 data
buses are needed.
6. AM wave is detected using $\qquad$ detector
7. Which flip flop is used for shift registers
8. Program counter does what _ (stores a memory address, address of the present instruction) Freshersworld.com
9. In a bistable multivibrator communication capacitor is used for
$\qquad$ ( speed up response, ac coupling)
10. Totem pole is what?
11. Time constant for an integrator and differentiator should be ( small , high etc.)
12.TV waves are _ ( sky waves, space waves etc.)
13.Which configuration has highest i/p imp. ( ce , cb , cc )
12. Parabolic antenna with 2degree angle. What is its directivity.
13. Given 10 mhz pe modulation and we got a 100 mhz band. How many channels can be there.
14. If o/p power is doubled by how much does the sound increase ( 1db,2db,3db )

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Hungama..!! (Aptitude :: Technical )
Campus Recruitment at NIT Durgapur : AUG -2003
Mind Here in our Institute within 30 minutes 45 questions were to be answered.

There was no negative marking.
Question Pattern:
[1] Jumble sentences are given ,order the sentences to make a meaningful paragraph
[2] Sentences are given, order the sentences to make conclusion that follows from the options given(Say 5 sentences are given out of which 2 are causes and rest is result, like fallacy in logic).
[3] Analogies.
[4] Opposite meaning.
[5] Point out the error in a given sentence.
[6] C ( Follow 'Test your C skills ').
[7] Data Structure.
[8] Operating System.
[9] Network.
[10]Puzzles(1-2),Critical reasoning(1-2).
We can not remember all the questions exactly as time was very short .Here are some of the questions ( Not in order).

1. A topic on Gandhiji's Salt Satyagrah Movement

Four sentences were given and you have to arrange them to make a paragraph.

Ans. CABD (Check it out).
2. What can't be changed by the user program (Four choices
were there).
Ans. Memory Map (Check it out).
3. In which layer ROUTING is performed?

Ans. Network Layer
4. What is the output of the following code snippet
main()
\{
printf(5+"Fascimile");
\}
Ans. mile
5. What is the output

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Intcount=10,sum=0,*temp;
Temp=\&count;
Sum=? \&count;( It was actually given temp=? \&count; which is probably wrong)

Printf("sum=\%d count= \%d temp=\%d ",sum,count,"temp);

Ans. C (most expected answer ,check it)
6. Which one has no L-Value
[i] a[i]
[ii] i
[iii] 2
[iv] *(a+i)
Ans. [iii]
6. In threaded binary for which traversal orders unused left and right links are used?

Ans.
7. Which is false for binary tree?
[i] Any node should have two children.
[ii]
[iii] At fourth level the number of node should be less than 16.
Ans.
8. Which is true for binary search ?
[i] Traversal scheme
[ii]
[iii]Greedy algorithm
[iv] Divide and conquer algorithm
Ans. [iv]

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9. What is the protocol used for getting the physical address by supplying IP address of a node?
[i] ARP
[ii] RARP
[iii] BOOTP
[iv] DHCP
Ans. [i]
10. If DELHI is coded as CCIDD then how BOMBAY will be coded?
11. Opposite meaning of SPUR.
12. Opposite of HARBINGER .

Ans. Follower
13. Opposite meaning of PROTRUSION.

Ans.
14. Opposite meaning of RESTIVENESS.

Ans.Docility.
15.Find the odd one in a given analogy

Ans. Mundane.
16 . Find the analogy: SURPRISE : EXCLAMATION
Ans. Dismay:groan.
17) Find the analogy: Plateau: Taxonomy.
18)Question from congestion control topic:

Ans: source quench.
19) Question from kernel mode:

Ans:Disable Interrupts.
20) which one is a page replacement algorithim.
[ij]ifo
[ii]
[iii]Least recently used.
[iv]All of above.
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21)Using two numbers And interchanging + and * there was a question.

Ans:(iii)(some expression=22).
22)For each hour an watch is going slow by 30 seconds. Now time is

8a.m.What will be the actual time at 8 p.m.
Ans:ii)7:54.
23)Question regarding while loop.

Ans:(iii).
24)Alphabetical order L,M,...(cant remember)

Ans:F.
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25)One puzzle:(I cant exactly remember this question giving brief idea of this question)there were four guys $A, B, C, D$. the older and younger relation is given. $U$ have to find the age of the $A$.

Ans: 7 years(check it out).
26)Fallacy question: six sentences are given.
[i]...
[ii]...
[iii]...
[iv]...

Ans: [i].
28)Nine people six floor. Conditions are given.(This was a very long paragraph).Peoples named like I,J,K,L,M,N,O,P,Q.

Ans:i)J.
29)A question regarding node.

Ans:iii)
30)A problem regarding age of father and son(very easy problem u can solve it).
31)Point out error in the follwing sentence:I got the book in the office and slipped it out.
[i]l got the book.
[ii] in the.
[iii]office and .
[iv] slipped it out.
Ans:[iv].
32)Point out error:(about a flowers garden)
ans:(I can't remember the options).answer will be "among on another".

TIPS: Try to mug up the answers .check once more only the questions in the hall which we have pointed out by writing "check it out" with the answers.

But the other answers are correct fully. Don't waste your time on long paragraphs. There was no negative marking. Try to solve all the departmental question.

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WIPRO Technologies
The aptitude test consisted of 45 questions to be answered in 45 mins..
Most of the questions were English (difficult to understand the
questions itself!!!)
All questions were mixed up...(here the questions are not in order)
Some of which I can remember are as follows:
1.antonym of PARSIMONIOUS:
a.
b.generous
c.
d.
ans.b
2.to arrange sentences to form a logical paragraph
3.If MARCH is coded as HCRAM ,then ELBAC is coded as
a.TABLE
b.CABLE
c.
d...
ans: b
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4. Two clocks A \& B..B falls by half a minute every hour while $A$ is correct. Both of them show the correct reading at $8: 00 \mathrm{AM}$.If the time shown by clock $B$ is $1: 57$ P.M., what is the time shown by clock $A$ ?
a.3:00A.M
b.3:00PM
c.2:00PM
d.2:00A.M
5.For deadlock to occur what are the conditions which are necessary?
a.mutual exclusion
b. hold \& wait without ...emption
c.circular ....
d.all of the above
6.analogy ...TADPOLE:FROG
a.tumble:fall
b.swell:pain
C...
d...
7.chose the critical word: PERSISTENT,FREQUENTLY,CONSTANT,(some more words were given, I don't rememberJ)...
a.often
b.perpetual
c.
d.
8.Fill in the blanks with appropriate word/words:

She was not chosen to be the secretary as she was not $\qquad$
a.vivacious
b...
c.versatile
d....
9.select sentences so that the third statement can be concluded from the first two...
10.Fill in the blanks with appropriate word/words:
11.which of the following is not a "dynamic data structure"
a.tree
b.binary ..
c.array
d.none of the above
12. Question from congestion control topic:

Ans: source quench.
13. Interchanging + and / also 2 and 3 , which of the following expressions are true?
(easy)
14. Interchanging $+\& /$ also $10 \& 5$, which of the following expressions are true?
(easy)
15.about doubly likn list : to delete a node to the right of $p$, which of the following is true?
a.p->right=p->right->right;p->right->right->left=...
b.
C.
d.none of the above
16. A long puzzle about 4 people Lewis, Frank ,...going to meet 4 people :insurance agent, consultant, money lender, share broker in a building with 4 floors(G+3floors).

Lewis meets share broker who is above money lender, money lender is not on 1st floor.

Frank meets insurance agent who is below consultant..
Some more conditions were given...which floor is the share broker?
a.G floor
b. 1 st floor
c.2nd floor
d. 3rd floor
ans: 3rd floor (check out the answer)
17. An island where the people speak 1 sentence truth \& other is false.. 3 people on island: GOL , TOL ,BOL.. One of them was carrying a snake on his shoulder.

2 sentences by each were given..who is the snake charmer?
Ans:BOL (check it out)
18.compiler is used to convert $\qquad$ to $\qquad$
a.low level language, high level language
b.high level language ,low level language
c.both a \& b
d.dependent on the compiler.
19.the best case \& worst case merge sort algorithm (I don't remember the q properly)
a.O(n),O(logn)..(some ans os this sort were givenJ)
20.void main()

```
{
```

char "p=""s"Hello";
printf("\%s",p);
\}
what is the $\mathrm{o} / \mathrm{p}$ ?

## a.sHello

b.s
c. Hello
d.error
21. Tcp/ip is
a)connectionless
b)connection oriented
c) both a \& b
d)none
ans b
22.Process has memory divided into how many parts?
a. 7
b. 3
c. 10
d.memory is undivided
23.one more question on correcting the error in the given sentence
24.given 4 words, to find out the odd one out..
....: discord: ....: ....
25.small passage was given..the inference from the passage is?

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b.binary ..
c.array
d.none of the above
12. Question from congestion control topic:

Ans: source quench.
13. Interchanging + and / also 2 and 3 , which of the following expressions are true?
(easy)
14. Interchanging $+\& /$ also $10 \& 5$, which of the following expressions are true?
(easy)
15.about doubly likn list : to delete a node to the right of $p$, which of the following is true?
a.p->right=p->right->right;p->right->right->left=...
b.
c.
d.none of the above
16. A long puzzle about 4 people Lewis, Frank ,...going to meet 4 people :insurance agent, consultant, money lender, share broker in a building with 4 floors(G+3floors).

Lewis meets share broker who is above money lender, money lender is not on 1st floor.

Frank meets insurance agent who is below consultant..
Some more conditions were given...which floor is the share broker?
a.G floor
b. 1 st floor
c.2nd floor
d. 3rd floor
ans: 3rd floor (check out the answer)
17. An island where the people speak 1 sentence truth \& other is false.. 3 people on island: GOL , TOL ,BOL.. One of them was carrying a snake on his shoulder.

2 sentences by each were given..who is the snake charmer?
Ans:BOL (check it out)
18.compiler is used to convert $\qquad$ to $\qquad$
a.low level language , high level language
b.high level language ,low level language
c.both a \& b
d.dependent on the compiler.
19.the best case \& worst case merge sort algorithm (I don't remember the q properly)
a. $O(n), O(\operatorname{logn}) . .($ some ans os this sort were givenJ)
20.void main()
\{
char *p=""s"Hello";
printf("\%s",p);
\}
what is the $\mathrm{o} / \mathrm{p}$ ?
a.sHello
b.s
c. Hello
d.error
21. Tcp/ip is
a)connectionless
b)connection oriented
c)both a \& b
d)none
ans b
22.Process has memory divided into how many parts?
a. 7
b. 3
c. 10
d.memory is undivided
23.one more question on correcting the error in the given sentence 24.given 4 words, to find out the odd one out.. ....: discord: ....: ....
25.small passage was given..the inference from the passage is ?

